

**KENTUCKY HERITAGE COUNCIL,
2010-2011 FEDERAL SURVEY AND PLANNING GRANTS**

1. APPLICATION INFORMATION			
Organization Name Owensboro Museum of Science and History			
Organization Address		122 East 2nd Street, Owensboro, KY 42303	
Principal Contact Person		Kathy Olson	Phone (270) 687-2732
Contact Person Title		Executive Director	Email kolson@owensboromuseum.com
<input type="checkbox"/>	Local Government	<input type="checkbox"/>	University
<input type="checkbox"/>	State Agency	<input checked="" type="checkbox"/>	Nonprofit Group
<input type="checkbox"/>	Regional Planning Agency	<input type="checkbox"/>	Other

2. PROJECT INFORMATION			
A. Category [check appropriate box(es).]		Total Amount Requested	\$
<input type="checkbox"/>	Survey (Archaeological)	<input type="checkbox"/>	CLG Administration
<input type="checkbox"/>	Survey (Historic Building)	<input type="checkbox"/>	Rural Preservation
<input type="checkbox"/>	Context Development	<input type="checkbox"/>	National Register Nomination(s)
<input type="checkbox"/>	Pre-Development	<input type="checkbox"/>	Preservation Planning
<input type="checkbox"/>	Technical Assistance	<input type="checkbox"/>	Publication
<input checked="" type="checkbox"/>	Other Archaeological Resources/Native American Heritage Educational Exhibits and Programming		
B. Summary: On attachment provide a narrative summarizing the proposed project. Define the research <u>methodology</u> or approach. Define the <u>time frame</u> . Define the <u>products</u> . Define the <u>project impact area</u> and explain how local government and the public will be involved in the project. Archaeological projects also need a research design and must discuss how the project addresses the State Plan in Archaeology, <i>The Archaeology of Kentucky: Past Accomplishments and Future Directions</i> , which is available at http://heritage.ky.gov/envreview/archofky.htm (note: updated pdf files for the state plan are at the right side of the webpage).			
C. Kentucky Heritage Council program priority: List program priorities from the Kentucky Heritage Council, 2010-2011 Federal Survey and Planning Grants Annual Priorities.			

3. PROFESSIONAL QUALIFICATIONS
Attach a resume for the staff, consultant or principal investigator and other key personnel who will carry out the project. If this individual has not been identified, summarize the selection process to be used and the professional standards to be met by consultants. Professionals should meet the criteria established in 36C.F.R.61 and consultants must be

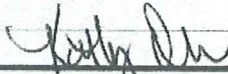
selected in accordance with the National Park Service Regulations.

4. BUDGET

Complete the following Budget Summary form for your project.

5. SIGNATURE

I certify this organization complies with all Federal Fair Employment Laws including Title VI of the Civil Rights Act of 1964, Executive Order 11246 and the Rehabilitation Act of 1973. I certify the information in this application is true and accurate.

	Executive Director	22 September, 2010
Signature of Chief Executive Officer and Title		Date

Return electronic files or original and 5 copies of completed application with attachments to:

(By email to:)

Jackie.Bradley@ky.gov

Include in Subject Line: "Federal Survey and Planning Grants

OR

(By Postal Service to:)

THE KENTUCKY HERITAGE COUNCIL
ATTN: Federal Survey and Planning Grants
300 Washington Street
Frankfort, Kentucky 40601

**KENTUCKY HERITAGE COUNCIL,
2010-2011 FEDERAL SURVEY AND PLANNING GRANTS**

APPLICANT: Owensboro Museum of Science and History

TOTAL GRANT AMOUNT REQUESTED: \$10,000.00

A. EXPENDITURES

Federal share cannot exceed 60% of total cost of expenditure. Non-federal share must be at least 40% or more of the total cost of expenditure. In-kind, non-federal share can be used as part of the 40% match but is not reimbursable.

TYPE OF EXPENDITURE	I. TOTAL COST OF EXPENDITURE	II. FEDERAL SHARE	NON-FEDERAL SHARE	
			III. CASH	IV. IN-KIND
A. PERSONNEL				
Staff Salary	\$42,500	0		\$42,500
Staff Fringe	\$6,375	0		\$6,375
Consultant Fees	\$6,500	0	\$6,500	
Volunteer Service	\$60,000	0		\$60,000
B. OPERATING EXPENSES				
Rent				
Utilities/Telephone				
Printing/Copying				
Photography				
Computer Services				
Travel				
Expendable Supplies				
Postage				
Professional Development				
Equipment				
Indirect Costs (Only universities)				
C. OTHER (list)				
Exhibit Fabrication	\$60,000	\$10,000	\$30,000	\$20,000
Exhibit Finishes	\$15,000	0	\$5,000	\$10,000
Exhibit A/V	\$7,500	0	\$7,500	
Graphics/Artifact Prep	\$19,500	0	\$12,000	\$7,500
D. TOTAL ALL COLUMNS	\$217,375	\$10,000	*\$61,000	*\$146,375

B. SOURCE OF NON-FEDERAL SHARE (Columns III & IV above)

Provide organization source of all cash and in-kind contributions to the non-federal share. List in-kind and cash contributions from the same organization separately. In-kind contributions from the community donated through the sponsor may be totaled and listed as one item.

AGENCY/ORGANIZATION	SOURCE OF MATCH (e.g. General Funds)	CASH	IN-KIND	TOTAL
Owensboro Museum of Science and History				
Staff Salary/Fringe/Exhibit Finishes/Artifact Prep	General Funds	\$66,375		\$66,375
Volunteers		0	\$60,000	\$60,000
Consultant/Graphics/Exhibit Fabrication/Exhibit Finishes/Exhibit A/V	Community Donations and grants	0	\$81,000	\$81,000
TOTAL ALL COLUMNS		\$66,375	\$141,000	*\$207,375

*Totals for Columns III and IV of Part A must equal total in Part B.

OWENSBORO MUSEUM OF SCIENCE AND HISTORY
Kentucky Heritage Council 2010-2011 Federal Survey And Planning Grants

PROFILE OF ORGANIZATION

Established as a portable museum in 1966 with the assistance of a Title III National Defense Education Act grant, the Owensboro Museum of Science and History is now located in an historic building complex in downtown Owensboro. Permanent galleries include **Encounter**, **Mammoth Lobby**, **Wendell H. Ford Government Education Center**, **Speedzeum**, **Owensboro Rotary Playzeum** and the soon-to-open **Coal Mine Gallery** and **Cave and Karst Exhibit**. An ever-changing traveling exhibit gallery and **StarLab**, a portable planetarium, supplement the museum's educational offerings. The museum annually serves over 70,000 students and visitors from western Kentucky, southern Indiana and southern Illinois.

The museum's mission is to collect, preserve and exhibit information and artifacts of material culture and natural history related to Kentucky and the Ohio River Region, with a special emphasis on western Kentucky; to maintain a participatory discovery center encompassing all the sciences; and to use its collections and exhibits to maintain an educational resource center.

The museum holds in public trust over 30,000 documents, photographs, artifacts and specimens that reflect this region's natural and cultural history. The permanent, temporary and traveling exhibitions provide field study experiences for tri-state students and are a core component of our community's economic development and tourism marketing. Programs include the Budding Biotech Project, a state-wide school assembly Adventures in Agriculture experience, Members' Monday Mornings, Super Science Saturdays, Concert Curators, Spring/Fall/Winter Break and SEEK Summer classes and presentations on the humanities and sciences. The Wi-Fied museum also provides meeting, seminar and reception space for community clubs, businesses and individuals. **The Owensboro Museum of Science and History is a gathering spot, a learning center and a family-friendly entertainment experience.**

STATEMENT OF NEED

The Museum of Science and History commissioned a General Exhibit Survey Plan in 2001 from the design firm of Van Sickle & Rolleri, Ltd. Those survey plans, which were funded by the Marilyn and William Young Charitable Foundation, provided a general layout and strategic implementation plan for the museum's long-term and temporary galleries. Since then, **Speedzeum** and **Owensboro Rotary Playzeum** have been added, and the planning phase for a natural history gallery, **Origins**, has been completed. The exhibits and programming of **Origins** will meet the museum's mission to tell the story of the region's natural history and lay the foundation, in a fun and experiential setting, for many of the Kentucky Department of Education's new Core Content "Big Ideas" in science and math. Kentucky's new education guidelines are aligned with NATIONAL EDUCATION STANDARDS and will be relevant to students from surrounding states.

PROJECT SUMMARY AND METHODOLOGY

The Origins Gallery Phase One - The Cave and Karst Experience!

The **Origins** gallery will be perhaps the most memorable exhibit that visitors will experience at the Owensboro Museum of Science and History. Currently under construction in the museum's first-floor gallery, **Origins** is the story of the region's natural history, using the various components of our local "ecological address" as exhibit themes. The entire space is being transformed into a geologic environment, allowing the visitor to walk a meandering path through time itself. Going back in time 410 million years, the visitor will experience Owensboro and western Kentucky during the Devonian through Pennsylvanian Periods forward, and will learn about the shallow seas, ancient coral reefs and giant club moss forests that existed here. The origins of the energy resources we know today as gas, oil and coal will be seen and the phenomenon of plate tectonics will be demonstrated and related to the geologic instability we know today as the earthquake.

The exhibit is designed to gently ramp up in elevation and, through its twisting and turning nature, will afford views of the rest of the first floor museum spaces. Using the museum's Columbian Mammoth, the visitors will discover a portion of the great animal's tusk in separate archaeological and paleontological discovery areas. Various nooks and crannies will allow for the discovery of a great variety of other natural phenomenon including the diversity of flora and fauna, weather phenomena and climate changes and the effects of water in defining the landscape over time. Finally, the exhibit will arrive at the new mezzanine and visitors will learn about the last Glaciation period, the beginnings of the Ohio River and what is currently known of the first human occupations in this area.

Visitors will first encounter evidence of this region's Native American story within a cave (also under construction through the award of an IMPACT100 Owensboro grant.) As they exit the cave, patrons will see a modern-day archaeological dig. The artifacts unearthed will correspond to a Paleoindian camp located on the planned mezzanine *directly above* the first-floor archaeological dig. This alignment will allow for direct comparison, once students and other patrons are on the mezzanine, of the recreated Paleoindian site and a modern-day dig directly beneath their feet, visible through a plex viewing floor. Visitors will continue down a path that will emphasize the change in flora and fauna at the end of the last glaciation period, as well as introduce the Archaic, Woodland and Mississippian cultures through murals, dioramas, artifact vitrines and a series of interactive stations.

The monies requested in this grant will help fund the exhibit fabrication platforms and themed spaces for this portion of **Origins** detailing Daviess County's, as well as the surrounding region's, archaeological story as we know it today. Additional Native American exhibits featuring the contact period are also being planned for our soon-to-be-constructed RiverHeritage History gallery, to be located on the museum's 2nd floor. Monies for that new long-term gallery include an award of TE-21 \$250,000 grant.

Project Goals and Objectives

GOALS	OBJECTIVES
<i>To advance the museum's mission</i>	Complete Origins Natural History Gallery by late 2011
<i>Increase science and mathematics and cultural literacy in grades K-12</i>	Gallery content will meet or exceed National Education Standards
<i>Increase an understanding of the importance of protecting all cultural history, including both Native American and non-Native American sites.</i>	Introduce educational programming as well as community volunteer opportunities to both a student and adult audience.

Gallery Timetable

The design phase of **Origins** began in December 2005, the initial exhibit outline and storyline were completed in August 2006 and the completed schematic design became available in May 2007. The following is the remainder of the museum's timeline for this project:

Award of Final Funds from Impact 100	October, 2009
Bidding or Negotiation for Fabrication	November 1, 2009
Final Review of specs/timelines	December 11, 2009
Start Exhibit Fabrication	January, 2010
Begin building infrastructure	February, 2010
Start of Cave Installation	August, 2010
Cave Installation Complete	October, 2010
Construction of Glaciation Period infrastructure	November, 2010
Construction of Mezzanine	Early 2011
Fabrication of Native American Exhibits	Spring, 2011 —
Installation of Native American Exhibits	Spring/Summer, 2011 —
Opening of Completed Origins Gallery	Fall, 2011

Evidence of Best Practices

The exhibit design process followed exhibition and planning standards as established by the National Association of Museum Exhibition and, to the extent applicable, the National Park Service's Exhibit Planning and Design Guidelines.

OWENSBORO MUSEUM OF SCIENCE AND HISTORY
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EVALUATION

A process known as "front-end evaluation" was used during the design of the exhibits to determine the public's general knowledge, questions and concerns regarding the exhibit topics. It began an important dialogue with potential visitors and further incorporated them into the planning process. Exhibit models, sketches and renderings were used in the short term to describe the designers' ideas. The information gleaned from the evaluations will influence the way examples and explanations will be given.

Similarly, the process of "summative evaluation" will be used to determine the exhibits' effectiveness and whether the exhibits' objectives have been met. Such information will in turn be used to judge which design/communication techniques have been successful so that future educational changes to the exhibits are most relevant.

PROJECT FUNDING PLANS

- The museum was awarded a \$25,000 planning and design grant for **Origins** from the Marilyn and William Young Charitable Foundation in November 2005. Architect and museum exhibit designer, Joe Argabrite, was hired, and the **Origins** gallery design planning began in December 2005.
- The award of the 2009 Impact100 Owensboro grant of \$104,000 is fully funding the free-standing **Origins Phase One – The Cave and Karst Experience** which will open this new first floor gallery.
- In-kind donations will continue to add special components and ongoing fundraising and donations continues to raise the funds necessary for Phase Two

NUMBER SERVED BY PROJECT

Origins and its associated Native American story will serve a tri-state audience of over 100,000 students, approximately 50% of which are elementary age. While the museum currently books tours from school systems as far south as Paducah, as far north as Jasper and as far west as Harrisburg, Illinois on a routine basis, there are still many tri-state schools that are searching for an inspirational, cutting-edge educational experience before spending valuable gas dollars on a field trip. **The Origins gallery** will be full of the kind of WOW! experiences combined with real-science and cultural learning opportunities that students and teachers crave and are usually only found in larger cities - an educational win-win gallery that will attract an entire new crop of regional schools into our community.

HOW WILL THIS PROJECT IMPACT THE TRI-STATE REGION

Origins will provide improved science and cultural education and workforce development opportunities for visitors of **all** ages, abilities and economic backgrounds. The tourism opportunities created will also impact many different sectors of our community's economy, both downtown and throughout Owensboro and the western Kentucky region.

OWENSBORO MUSEUM OF SCIENCE AND HISTORY
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PROFESSIONAL QUALIFICATIONS

The museum has not yet identified all of the consultants and personnel to be utilized in this project. We will work closely with both the Kentucky Heritage Council and the Kentucky Archaeological Survey to identify the most qualified scholars and educators to assist in the production of both exhibit and educational interpretation, graphics and text. <

**PROGRAM PRIORITIES ADDRESSED FROM THE 2010-2011 FEDERAL SURVEY
AND PLANNING GRANTS ANNUAL PRIORITIES**

The Owensboro Museum of Science and History's **Origins** Natural History and Native American exhibits furthers:

- Kentucky's Native American Heritage Commission's educational and site preservation mission
- Special Project presentation/video and exhibit projects
- Special Project educational curricular projects

CIVIL RIGHTS COMPLIANCE GRID

The Kentucky Heritage Council observes the provisions of the Civil Rights Act of 1964, and all subsequent federal and state laws and regulations. The Heritage Council must ensure that its subgrantees do the same. If your county or area contains, for instance, a significant number of Hispanics or African Americans, then your group must find ways to involve these populations in the grant project. The grid below offers the subgrantee a way to demonstrate to the Kentucky Heritage Council that diverse populations have been considered in the planning of the grant project, in its execution, and in its products.

Please enter a number into each cell below, as applicable. ***The numbers entered will show how many people participate in the project according to their role (the horizontal rows) and according to their population status (the vertical columns).** Use the grid to track the participation of diverse groups in your project.

In a county with a significant number of Hispanics and African Americans, members of those groups can participate in the project planning by being on the team that designs the project. In that same county, they can be involved in the project's execution by participating as volunteer researchers, as informant, as the project's staff members, and the project's advisory group, or as the consultant hired to complete the project. Also, if the project's products are intended for target audiences, such as programs for children in schools with large minority populations, or in documents that focus on the lives of those residents, then indicate on the grid, the numbers of people served by those products.

		Identified Population Group									TOTALS
		African American, Black	Asian American or Pacific Islander	Hispanic	Native American, Eskimo or Aleut	White	Other Races	Women	Older American	Persons With Disabilities	
Role of Participants or Grant Project's Audience	Grant Planning Group					5		1			5
	Consultant Or Staff					2			2	1	5
	Advisory Group, if Applicable										0
	Volunteer Workers, if Applicable				1	9		2	5	2	10
	Student Population, if applicable										0
	Product's Intended Audience	1,200	50	400	120	18,000					18,120
	Other Activity	3,982	393	845	120	85,772	405	42,886	36,272	20,000	91,545
	Other Activity										
	Total in County or Area Served*	3,982	393	845	120	85,772	405	Approx 42,886	Approx 36,275	Approx 20,000	91,545

*These figures can be derived from the latest census reports for the county or area served and can be obtained by going to <http://quickfacts.census.gov/qfd/states/21000.html>.